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3/15/04  
AwEXPRESS MAIL NO. EV 376 296 697 US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Srinivasa *et al.*

Confirmation No.: 8570

Serial No.: 10/026,065

Art Unit: 2621

Filed: December 19, 2001

Examiner: To be determined

For: METHOD AND APPARATUS FOR  
ELECTRONICALLY EXTRACTING  
APPLICATION SPECIFIC MULTI-  
DIMENSIONAL INFORMATION FROM  
DOCUMENTS SELECTED FROM A  
SET OF DOCUMENTS  
ELECTRONICALLY EXTRACTED  
FROM A LIBRARY OF  
ELECTRONICALLY SEARCHABLE  
DOCUMENTS

Attorney Docket No.: 1044-401-01

RECEIVED

MAR 01 2004

Technology Center 2600

**TRANSMITTAL OF REVOCATION AND POWER  
OF ATTORNEY OR AUTHORIZATION OF AGENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

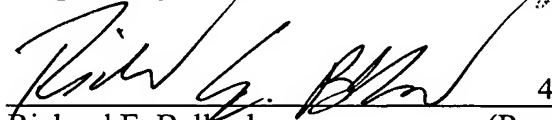
Sir:

Submitted herewith is a Revocation and Power of Attorney or Authorization of Agent executed by Gerard N. Casale, Jr., Manager of X-Labs Holdings, LLC, on February 12, 2004. Attached is a copy of an Assignment by the inventors to XLaboratories, LLC executed on August 20, 2001, and a copy of an Assignment from XLaboratories, LLC to X-Labs Holdings, LLC executed on December 17, 2003.

Applicant respectfully requests that the enclosed Revocation and Power of Attorney or Authorization of Agent be made of record in the file of the application.

Respectfully submitted,

Date: February 24, 2004

  
Richard E. Ballard 46,078  
(Reg. No.)  
**JONES DAY**  
222 East 41st Street  
New York, New York 10017-6702  
(650) 739-3945

Enclosures



FEB-13-2004 10:44AM FROM: JONES DAY

650 739 3900

T-204 P.004

F-711

EXPRESS MAIL NO.: **EV 376296697 US**

POWER OF ATTORNEY

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**REVOCATION AND POWER OF ATTORNEY OR AUTHORIZATION OF AGENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

X-Labs Holdings, LLC (assignee) hereby revokes any and all previous powers and appoints:

☒ Practitioners at Customer Number 20583 and Richard E. Ballard, Reg. No. 46,078.

as its/their attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above mentioned Customer Number, 20583

☒ Firm or Individual Name:

Address: Jones Day  
Attn: Richard E. Ballard  
222 East 41st Street  
New York, New York 10017

Telephone: (650) 739-3945

X-Labs Holdings, LLC is the:

☐ Applicant/Inventor  
☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
(Statement under 37 CFR 3.73(b) is applicable)

**Statement Under 37 C.F.R. 3.73(b)**

X-Labs Holdings, LLC states that it is:

☒ the assignee of the entire right, title, and interest; or

- 1 -

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Power of Attorney by Assignee - XLabs 1044-401-01  
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EXPRESS MAIL NO.: EV376 296

- ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is %

in the patent application/patent identified above by virtue of either:

- ☐ An assignment from the inventor(s) of the patent application/patent identified above.  
The assignment was recorded in the United States Patent and Trademark Office on at Reel , Frame .

OR

- ☒ A chain of title from the inventor(s), of the patent application/patent identified above,  
to the current assignee as shown below:

1. From: the inventor(s) To: XLaboratories, L.L.C.  
The document was recorded in the United States Patent and Trademark Office on  
12/19/2001 at Reel 012405, Frame 0300.

2. From: XLaboratories, L.L.C. To: X-Labs Holdings, LLC  
The document was recorded in the United States Patent and Trademark Office on  
at Reel , Frame , or for which a copy thereof is attached.

3. From: To:  
The document was recorded in the United States Patent and Trademark Office on  
at Reel , Frame , or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☒ Copies of assignments or other documents in the chain of title are attached.  
[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

ASSIGNEE: X-Labs Holdings, LLC

Date:

2/12/04

Signature:



Typed Name: Gerard N Casale, Jr.

Position/Title: Manager

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required.

- ☒ Total of 1 form is submitted.

# **EXHIBIT 4**

## **PATENT ASSIGNMENT**

I/WE, X Laboratories (ASSIGNOR)

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to X-Labs Holdings, LLC (ASSIGNEE), its successors, assigns and legal representatives all my/our right, title and interest, in and for the United States of America, in and to the inventions entitled below:

<b>Title</b>	<b>Filing Date</b>	<b>USPTO Serial No.</b>
Method and Apparatus for Electronically Extracting Documents Potentially Containing Application Specific Multidimensional Information from a Library of Searchable Documents	12/19/2001	10/025,342
Method and Apparatus for Electronically Extracting Application Specific Multidimensional Information from Documents Selected from a Set of Documents Electronically Extracted from a Library of Electronically Searchable Documents	12/19/2001	10/026,065
Method and Apparatus for Electronically Extracting Application Specific Multidimensional Information from a Library of Searchable Documents and for Providing the Application Specific Information to a User Application	12/19/2001	10/025,349
Method and Apparatus for High Speed Implementation of Data Encryption and Decryption Utilizing, e.g., Rijndael or Its Subset AES, or Other Encryption/Decryption Algorithms Having Similar Key Expansion Data Flow	1/4/2002	10/040,087
Method and Apparatus for High Speed Key Expansion in a Parallel Pipelined Implementation of, e.g., Rijndael or Its Subset AES, or Other Encryption Algorithms with Similar Key Data Flow	1/4/2002	10/038,999
Method and Apparatus for Augmented Reality Hybrid Tracking System with Fiducial-Based Heading Correction	10/18/2002	10/282,397
Method and Apparatus for Iterative Equalization/Decoding MIMO Transmissions Over MIMO Channels Utilizing a Per-Antenna Equalization Architecture	7/25/2002	60/398,528
Method and Apparatus for Iterative Equalization/Coding MIMO Transceiver	7/25/2002	60/398,527

Application-Specific Object-Based Segmentation and Recognition System  
Having an Improved Background Modeling Module

8/22/2002 60/405,201

Application-Specific Object-Based Segmentation and Recognition System  
Having an Improved Background Modeling Module

8/22/2002 60/405,337

Application-Specific Object-Based Segmentation and Recognition System

8/22/2002 60/405,346

and all United States Letters Patent which may be granted therefore, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made;

And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE.

Signed on

"ASSIGNOR"

DATED

X Laboratories, LLC

December 17, 2003

By: Its Attorney In Fact

  
Name: Gerard Casale

Title: Managing Partner, Casale Alliance, LLP

## ASSIGNMENT

WHEREAS, we **Narayan Srinivasa, Swarup S. Medasani, Yuri Owechko and Deepak Khosla** citizens, respectively, of India, India, the United States and India, whose post office addresses are 4274 Countrymeadow Street Moorpark, CA 93021, 1630 Camino Olmo, #F, Thousand Oaks, CA 91320, 369 Mooncrest Ct. Newbury Park, CA 91320, and 5736 N. Las Virgenes Rd. #238, Calabasas, CA 91302, have made an invention together for which we are about to make application for Letters Patent of the United States entitled **"Method and Apparatus for Electronically Extracting Application Specific Multidimensional Information from Documents Selected from a Set of Documents Electronically Extracted from a Library of Electronically Searchable Documents,"** and

WHEREAS, **XLaboratories, L.L.C.**, a limited liability company organized and existing under the laws of the State of California, and having an office for the transaction of business at 11755 Wilshire Boulevard, Suite 1200, Los Angeles, CA, 90025, is desirous of acquiring the entire right, title and interest in and to said invention and any improvements thereon, and in and to the said application for Letters Patent thereof, and any Letters Patent which may be obtained therefrom;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, the said **Narayan Srinivasa, Swarup S. Medasani, Yuri Owechko and Deepak Khosla** for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said **XLaboratories**, and other good and valuable consideration unto us moving from said **XLaboratories**, at and before the execution and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents, do sell, assign, transfer and convey, unto said **XLaboratories**, its successors, assigns and heirs the entire right, title and interest in and to the said invention for which we are about to make application for Letters Patent of the United States entitled **"Method and Apparatus for Electronically Extracting Application Specific Multidimensional Information from Documents Selected from a Set of Documents Electronically Extracted from a Library of Electronically Searchable Documents"**, executed concurrently herewith, and any and all improvements thereon, and in and to said application and any divisional, continuation or continuation-in-part applications thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND we, the said **Narayan Srinivasa, Swarup S. Medasani, Yuri Owechko and Deepak Khosla** do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **XLaboratories**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **XLaboratories**, its successors and assigns;

AND we, the said **Narayan Srinivasa, Swarup S. Medasani, Yuri Owechko and Deepak Khosla**, for the considerations aforesaid, do hereby covenant and agree to and with said **XLaboratories**, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or

administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said **XLaboratories**, its successors and assigns, may be required or necessary more effectively to secure to and vest in said **XLaboratories**, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

Subscribed and executed at Malibu, Los Angeles County, California on August 20, 2001

S. Narayana  
Narayan Srinivasa

M. Shanti Swamy  
Swarup S. Medasani

Yuri Owechko  
Yuri Owechko

Deepak Khosla  
Deepak Khosla